







JENEsys Edge® Series

PRODUCT COMPARISON

Model		JENEsys Edge 534 for Niagara 4	JENEsys Edge 534 with Monnit	JENEsys Edge 534-4G LTE	JENEsys Edge 514	JENEsys Edge 414	JENEsys Edge VAV
Part Number		JENE-EG534-N4	JENE-EG534-WL-M	JENE-EG534-4G	JENE-EG514	JENE-EG414	JENE-EG-VAV
Category	JENEsys Edge Family of Controllers						
Recommended Applications	Central plant and mechanical equipment control	■	■	■	■	■*	
	Rooftop units and small air handling units	■	■	■	■		
	Variable Air Volume (VAV) applications						■
	Terminal unit applications (fan coils, chilled beams, radiant and reversible ceilings, and heat pumps)				■	■	■
Preloaded Software and Graphics	Powered by Niagara 4	■	■	■	■	■	■
	Preloaded configurable applications						■
General Features	Webserver	■	■	■	■	■	■
	Max. number of points	1,250	1,250	1,250	300	50	50
	Max. number of devices	25	25	25	6	3	3
	Max. number of Onyx XM 34IOs	8	8	8	8	3*	3**
Inputs	Universal inputs (software configurable)	16	16	16	6	6	6
Outputs	Universal Outputs (analog)	10	10	10	4	4	4
	Digital Outputs (triac)	8	8	8	4	4	4
Power	External 24 Vac/dc +10%/-10%, 50/60 Hz, minimum 18 VA/device	■	■	■	■	■	■
Upgrading	Capacity-Based Upgrades	■	■	■	■		

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		JENE-EG534-N4	JENE-EG534-WL-M	JENE-EG534-4G	JENE-EG514	JENE-EG414	JENE-EG-VAV
Communication	2 Ethernet Ports	■	■	■	■	■	■
	2 RS-485 Ports	■	■	■	■	■	■
	Mini-B USB	■	■	■	■	■	■
	Micro USB	■	■	■	■	■	■
	Onyx Network	■	■	■	■	■	■
	Antennas	0	1	2	0	0	0
Advanced Security	HTTPS data exchange	■	■	■	■	■	■
	Encryption of data in transit	■	■	■	■	■	■
	Encryption of sensitive data at rest – AES 256	■	■	■	■	■	■
	TLS 1.1/1.2 Support	■	■	■	■	■	■
	SHA256 Digital Signatures on core framework	■	■	■	■	■	■
	Role Based Access Control	■	■	■	■	■	■
	User Access Audit Logging	■	■	■	■	■	■
	User Access Audit Logging	■	■	■	■	■	■
Mechanical and Environmental	Dimensions (W x H x D)	4.5" x 4.25" x 2.25"	4.5" x 4.25" x 2.25"	4.5" x 4.25" x 2.25"	3.46" x 4.25" x 2.125"	3.46" x 4.25" x 2.125"	3.46" x 4.25" x 2.125"
	Weight	0.9 lbs	0.9 lbs	0.9 lbs	0.6 lbs	0.6 lbs	0.6 lbs
	Operating Temperature: 0 – 60 °C (32 – 140 °F)	■	■	■	■	■	■
	Storage Temperature: 0 – 70 °C (32 – 158 °F)	■	■	■	■	■	■
	Relative Humidity Range: 5 – 95% RH, non-condensing	■	■	■	■	■	■
Certification	MET Compliant	Approved	Approved	Approved	Pending	Pending	Pending
	UL 916	Approved	Approved	Approved	Approved	Approved	Approved
	FCC	Approved	Approved	Approved	Approved	Approved	Approved
	RoHS	Approved	Approved	Approved	Approved	Approved	Approved
	CSA C22.2	Approved	Approved	Approved	Approved	Approved	Approved

JENEsys Edge 534 for Niagara 4

Model	Max. Number of Supported Points	BACnet MS/TP & Modbus RTU/TCU to IP Routing Points	Max. Number of Modbus & BACnet MSTP/IP Devices (RTU or TCP)	Embedded Niagara	Application
JENE-EG534-100-N4	100	100	5	■	
JENE-EG534-250-N4	250	250	5	■	
JENE-EG534-300-N4	300	300	6	■	
JENE-EG534-1250-N4	1250	1250	25	■	

JENEsys Edge Power Supply Modules

Model	Description
HDR-30-24	Power supply for one JENEsys Edge 534 and one Onyx XM 34IO
HDR-60-24	Power supply for one JENEsys Edge 534 and three Onyx XM 34IOs
HDR-100-24	Power supply for one JENEsys Edge 534 and eight Onyx XM 34IOs

* Limited by 50 Points of License

** Limited by 50 points of license. Changing default application will not be supported.

JENEsys Edge 534 with Monnit

Model	Max. Number of Supported Points	BACnet MS/TP & Modbus RTU/TCU to IP Routing Points	Max. Number of Modbus & BACnet MSTP/IP Devices (RTU or TCP)	Embedded Niagara	Application
JENE-EG534-WL-M-100	100	100	5	■	
JENE-EG534-WL-M-250	250	250	5	■	
JENE-EG534-WL-M-300	300	300	6	■	

Monnit Sensors

Model	Description
MNS2-9-W1-TS-ST	ALTA Wireless Temperature Sensor - Coin Cell Powered (900 MHz)
MNS2-9-W2-TS-ST	ALTA Wireless Temperature Sensor - AA Battery Powered (900 MHz)
MNS2-9-IN-TS-ST	ALTA Industrial Wireless Temperature Sensor (900 MHz)
MNS2-9-W1-HU-RH	ALTA Wireless Humidity Sensor - Coin Cell Powered (900 MHz)
MNS2-9-W2-HU-RH	ALTA Wireless Humidity Sensor - AA Battery Powered (900 MHz)
MNS2-9-IN-HU-RH	ALTA Industrial Wireless Humidity Sensor (900 MHz)
MNS2-9-W1-WS-WD-L03	ALTA Wireless Water Detection Sensor - Coin Cell Powered (900 MHz)
MNS2-9-W2-WS-WD-L03	ALTA Wireless Water Detection Sensor - AA Battery Powered (900 MHz)
MNS2-9-IN-WS-WD-L03	ALTA Industrial Wireless Water Detection Sensor (900 MHz)
MNS2-9-W1-WS-WD-L03-WP	ALTA Wireless Water Detection Plus Sensor - Coin Cell Powered (900 MHz)
MNS2-9-W2-WS-WD-L03-WP	ALTA Wireless Water Detection Plus Sensor - AA Battery Powered (900 MHz)
MNS2-9-IN-WS-WD-L03-WP	ALTA Industrial Wireless Water Plus Detection Sensor (900 MHz)
MNS2-9-W1-PC-01	ALTA Wireless Pulse Counters (Single Input) - Coin Cell Powered (900 MHz)
MNS2-9-W2-PC-01	ALTA Wireless Pulse Counters (Single Input) - AA Battery Powered (900 MHz)
MNS2-9-IN-PC-01	ALTA Industrial Wireless Pulse Counters (Single Input) (900 MHz)
MNS2-9-W1-DC-CF-L01	ALTA Wireless Dry Contact Sensor - Coin Cell Powered (900 MHz)
MNS2-9-W2-DC-CF-L01	ALTA Wireless Dry Contact Sensor - AA Battery Powered (900 MHz)
MNS2-9-IN-DC-CF-L01	ALTA Industrial Wireless Dry Contact Sensor (900 MHz)
MNS2-9-W1-PB-ST	ALTA Wireless Button Press Sensor - Coin Cell Powered (900 MHz)
MNS2-9-W2-PB-ST	ALTA Wireless Button Press Sensor - AA Battery Powered (900 MHz)
MNS2-9-W1-MS-IR	ALTA Wireless Infrared Motion Sensor - Coin Cell Powered (900MHz)
MNS2-9-W2-MS-IR	ALTA Wireless Infrared Motion Sensor - AA Powered (900MHz)
MNS2-9-W1-AC-TL	ALTA Wireless Accelerometer - Tilt Sensor - Coin Cell Powered (900 MHz)
MNS2-9-W2-AC-TL	ALTA Wireless Accelerometer - Tilt Sensor - AA Battery Powered (900 MHz)
MNS2-9-IN-AC-TL	ALTA Industrial Wireless Accelerometer - Tilt Sensor (900 MHz)
MNS2-9-W2-US-ST	ALTA Wireless Ultrasonic Sensor - AA Battery Powered (900 MHz)
MNS2-9-IN-US-IN-L03	ALTA Industrial Wireless Ultrasonic Sensor - End Mount (900 MHz)
MNS2-9-IN-US-IN-MPL	ALTA Industrial Wireless Ultrasonic Sensor - Middle Mount (900 MHz)

JENEsys Edge 534 – 4G LTE

Model	Max. Number of Supported Points	BACnet MS/TP & Modbus RTU/TCU to IP Routing Points	Max. Number of Modbus & BACnet MSTP/IP Devices (RTU or TCP)	Embedded Niagara	Application
JENE-EG534-4G-100U	100	100	5	■	
JENE-EG534-4G-300U	300	300	6	■	
JENE-EG534-4G-1250	1250	1250	25	■	

JENEsys Edge 514

Model	Max. Number of Supported Points	BACnet MS/TP & Modbus RTU/TCU to IP Routing Points	Max. Number of Modbus & BACnet MSTP/IP Devices (RTU or TCP)	Embedded Niagara	Application
JENE-EG514-100	100	100	5	■	
JENE-EG514-250	250	250	5	■	
JENE-EG514-300	300	300	6	■	

JENEsys Edge 414

Model	Max. Number of Supported Points	BACnet MS/TP & Modbus RTU/TCU to IP Routing Points	Max. Number of Modbus & BACnet MSTP/IP Devices (RTU or TCP)	Embedded Niagara	Application
JENE-EG414	50	50	3	■	

JENEsys Edge VAV

Model	Max. Number of Supported Points	BACnet MS/TP & Modbus RTU/TCU to IP Routing Points	Max. Number of Modbus & BACnet MSTP/IP Devices (RTU or TCP)	Embedded Niagara	Application
JENE-EG-VAV	50	50	3	■	